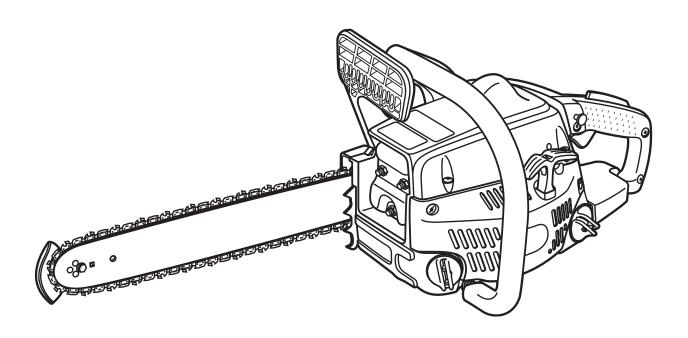
# Homelite®

OPERATOR'S MANUAL
356 mm (30 ft.) 33cc Chainsaw
CSP3314
Model No. UT74121A



Your new chainsaw has been engineered and manufactured to Homelite's high standard for dependability, ease of operation and operator safety. Properly cared for, it will give you years of rugged, trouble-free performance.

**WARNING:** To reduce the risk of injury, the user must read and understand the operator's manual.

Thank you for buying a Homelite chainsaw.

# SAVE THIS MANUAL FOR FUTURE REFERENCE

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# INTRODUCTION

### **IMPORTANT**

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. When servicing use only identical Homelite replacement parts.

For safe operation, read and understand all instructions before using the chainsaw. Follow all safety instructions. Failure to follow all safety instructions listed below may result in serious personal injury.



# WARNING:

Carefully read through this entire operator's manual before using your new saw. Pay close attention to the Safety Rules and all Safety Alert Symbols including Danger, Warning and Caution. These safety rules are for your safety and to prevent possible serious injury. If you use your saw properly and only for what it is intended, you will enjoy years of safe, reliable service.



Look for this symbol to point out important safety precautions. It means attention!!! Your safety is involved.



### **WARNING:**



The operation of any tool may result in foreign objects being thrown into the eyes, which can result in severe eye damage. Before beginning tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over glasses or standard safety glasses with side shields. Always wear eye protection.

# **GENERAL SAFETY RULES**

### WARNING:

The warnings, labels and instructions found in this section of the operator's manual are for your safety. Failure to follow all instructions may result in serious personal injury.

Safe operation of this tool requires that you read and understand this operator's manual and all labels affixed to the tool. Safety is a combination of using common sense, staying alert, and knowing how your saw works.

### READ ALL INSTRUCTIONS

- **KNOW YOUR TOOL.** Read the operator's manual carefully. Learn the saw's applications and limitations as well as the specific potential hazards related to this tool.
- **CHAINSAWS** are designed for cutting wood only.
  - KICK-BACK MAY OCCUR WHEN THE NOSE OR TIP OF THE GUIDE BAR touches an object or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a lightning-fast reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw, which could result in serious personal injury. **DO NOT** rely exclusively upon the safety devices built into your saw. As a chainsaw user, you should take several steps to keep cutting jobs free from accident or injury.
    - 1. With a basic understanding of kick-back, you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.
    - 2. Keep a good firm grip on the saw with both hands when the engine is running. Place your right hand on the rear handle and your left hand on the front handle, with thumbs and fingers encircling the chainsaw handles. A firm grip together with a stiff left arm will help maintain control of the saw if kick-back occurs.

- 3. Make sure the area in which you are cutting is free from obstructions. DO NOT let the nose of the guide bar contact a log, branch, fence or any other obstruction which could be hit while you are operating the saw.
- 4. Cut at high engine speeds. Always cut with the engine running at full speed. Fully squeeze the throttle trigger and maintain a steady cutting speed.
- 5. Do not overreach or cut above shoulder height.
- 6. Follow the manufacturer's sharpening and maintenance instructions for the saw chain.
- 7. Only use replacement bars and chains specified by the manufacturer or the equivalent.
- DO NOT OPERATE A CHAINSAW WITH ONE HAND. Serious injury to the operator, helpers and/or bystanders may result from one-handed operation. A chainsaw is intended for two-handed use.
- DO NOT OPERATE A CHAINSAW WHEN YOU ARE FATIGUED. Never operate a chainsaw when you are tired or under the influence of medication, drugs or alcohol.
- **USE SAFETY FOOTWEAR.** Wear snug-fitting clothing, protective gloves and eye, hearing and head protection
- **DO NOT STAND ON ANY UNSTABLE SURFACE** while using your chainsaw. This includes ladders, scaffolding,
- USE CAUTION WHEN HANDLING FUEL. Move the chainsaw at least 9 m (30 feet) from the refuelling point before starting the engine.
- **DO NOT ALLOW OTHER PERSONS** to be near the chainsaw when starting or cutting with the chainsaw. Keep bystanders and animals out of the work area.
- **DO NOT START CUTTING** until you have a clear work area, secure footing and a planned retreat path from the falling tree.

# **GENERAL SAFETY RULES**

- **KEEP ALL PARTS OF YOUR BODY** away from the saw chain when the engine is running.
- ALWAYS CARRY THE CHAINSAW WITH THE ENGINE STOPPED AND THE BRAKE ENGAGED, the guide bar and saw chain to the rear, and the silencer away from your body. When transporting the chainsaw, use the appropriate guide bar scabbard.
- DO NOT OPERATE A CHAINSAW THAT IS DAMAGED, improperly adjusted, or not completely and securely assembled. Be sure that the saw chain stops moving when the throttle control trigger is released.
- TURN OFF THE ENGINE before putting the chainsaw down. DO NOT leave the engine running unattended. As an additional safety precaution, apply the chain brake before putting down the saw.
- USE EXTREME CAUTION when cutting small-size brush and saplings because slender material may catch the saw chain and be whipped towards you or pull you off balance.
- WHEN CUTTING A LIMB under tension, be alert for spring-back so that you will not be struck when the tension in the wood fibres is released.
- KEEP THE HANDLES dry, clean and free of oil or fuel mixture.
- **OPERATE THE CHAINSAW ONLY** in well ventilated areas.
- **DO NOT OPERATE A CHAINSAW IN A TREE** unless you have been specifically trained to do so.

- in the instruction manual, and all maintenance should be performed by competent chainsaw service personnel. (For example, if improper tools are used to remove the flywheel or if an improper tool is used to hold the flywheel in order to remove the clutch, structural damage to the flywheel may occur and subsequently cause the flywheel to burst.)
- **KEEP ALL PARTS OF YOUR BODY** away from the saw chain when the engine is running.
- KEEP SAFE-T-TIP ANTI-KICK-BACK NOSE GUARD properly mounted on the guide bar to prevent rotational kick-back.
- **FOLLOW THE SHARPENING** and maintenance instructions for the saw chain.
- USE ONLY THE REPLACEMENT GUIDE BARS and low kick-back chains specified for your saw.
- **DO NOT** adapt the power head to a bow guide or use it to power any attachments or devices not listed for your saw.
- **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use to instruct other users. If you lend someone this tool, lend them these instructions too.

# SPECIFIC SAFETY RULES

### WARNING:

The warnings, labels and instructions found in this section of the operator's manual are for your safety. Failure to follow all instructions may result in serious personal injury.

### **GENERAL PRECAUTIONS**

- **DO NOT CUT VINES** and/or small underbrush (less than 76 mm (3 in.) in diameter).
- SILENCER SURFACES ARE VERY HOT during and after operation of the chainsaw; keep all body parts away from the silencer. Serious burns may occur if contact is made with the silencer.
- **MALWAYS HOLD THE CHAINSAW WITH BOTH HANDS** when the engine is running. Use a firm grip with thumbs and fingers encircling the chainsaw handles.
- NEVER LET ANYONE USE YOUR CHAINSAW who has not received adequate instructions in its proper use. This applies to hired as well as privately owned saws.
- **BEFORE YOU START THE ENGINE**, make sure the saw chain is not contacting any object.
- **OPERATE THE CHAINSAW** only in well ventilated areas.

### SAFETY APPAREL

Wear snug-fitting clothing. Always wear heavy, long trousers, boots and gloves. Do not wear jewellery, shorts, sandals, or go barefoot. Do not wear loose-fitting clothing, which could be drawn into the engine or catch the chain or underbrush. Wear overalls, jeans or chaps made of cut-resistant material or ones that contain cut-resistant inserts. Secure hair so that it is above shoulder level.

- Wear non-slip safety footwear and heavy-duty gloves to improve your grip and to protect your hands.
- Wear eye, hearing and head protection when operating this equipment.

### **REFUELLING (DO NOT SMOKE!)**

- To reduce the risk of fire and burn injury, handle fuel with care. It is highly flammable.
- Mix and store fuel in a container approved for petrol.
- Mix fuel outdoors where there are no sparks or flames.
- Select bare ground, stop the engine, and allow it to cool before refuelling.
- Loosen the fuel cap slowly to release pressure and to keep fuel from escaping round the cap.
- Tighten the fuel cap securely after refuelling.
- Wipe spilled fuel from the unit. Move 9 m (30 ft.) away from refuelling site before starting engine.
- Never attempt to burn off spilled fuel under any circumstances.

### BASIC PRECAUTIONS IN THE CUTTING/ **WORK AREA**

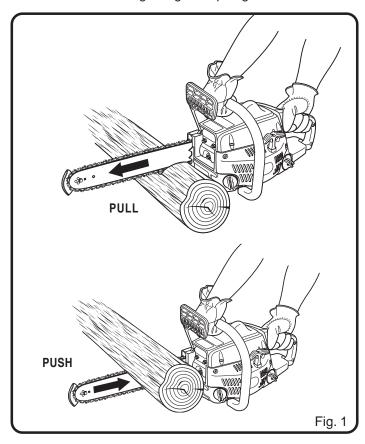
- Do not operate a chainsaw in a tree.
- Do not cut from a ladder: this is extremely dangerous.
- Keep bystanders and animals out of the work area. Do not allow other persons to be nearby during starting or cutting with the chainsaw.

**NOTE:** The size of the work area depends on the job being performed, as well as the size tree or work piece involved. For example, felling a tree requires a larger work area than making other cuts such as bucking cuts etc.

# SPECIFIC SAFETY RULES

### **PUSH AND PULL**

The reaction force is always opposite to the direction the chain is moving. Thus, the operator must be ready to control the PULL when cutting on the bottom edge of the bar and the PUSH when cutting along the top edge.



**NOTE:** Your chainsaw has been fully factory tested. It is normal to find some slight oil residue on the saw.

### MAINTENANCE PRECAUTIONS

Never operate a chainsaw that is damaged, improperly adjusted, or is not completely and securely assembled. Be sure that the saw chain stops moving when the throttle control trigger is released. If the saw chain moves at idling speed, the carburettor may need adjusting. Refer to "Operation-Adjusting Idling Speed" later in this manual. If the saw chain still moves at idling speed after adjustment has been made, contact a Homelite service dealer for adjustment and discontinue use until the repair is made.



### **WARNING:**

All chainsaw service, other than items in the operator's manual maintenance instructions, should be performed by competent chainsaw service personnel. If improper tools are used to remove the flywheel or clutch, or if an improper tool is used to hold the flywheel in order to remove the clutch, structural damage to the flywheel may occur and subsequently cause the flywheel to burst with possible serious injury.

### KICK-BACK

Kick-back is a dangerous reaction that can lead to serious injury. Do not rely only on the safety devices provided with your saw. As a chainsaw user, you must take special safety precautions to help keep cutting jobs free from accident or injury.

**NOTE:** Refer to "Operation" later in this manual for added information on kick-back and how to avoid serious personal injury.

# **SYMBOLS**

**Important:** Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and more safely.

SYMBOL	NAME	EXPLANATION
lack	Safety Alert Symbol	Indicates danger, warning or caution. It means attention!!! Your safety is involved.
	Read Your Operator's Manual	Your manual contains special messages to bring attention to potential safety concerns and machine damage, as well as helpful operating and servicing information.  Please read all the information carefully to avoid injury and machine damage.
	Eye, Hearing and Head Protection	Wear eye, hearing and head protection when operating this equipment.
	SAFE-T-TIP® Nose Guard	The SAFE-T-TIP® nose guard on the guide bar helps prevent kick-back.
	No Smoking	No smoking, sparks or open flame.
	Operate with Two Hands	Hold and operate the saw properly with both hands.
	One Handed	Do not operate the saw using only one hand.
	Carbon Monoxide	Engines produce carbon monoxide, an odourless, deadly poison. Do not operate in an enclosed area.
	Kick-back	Danger – beware of kick-back.
	Bar Nose Contact	Avoid bar nose contact.
	Gloves	Wear non-slip gloves.
RUN "O" STOP	Switch	To stop the engine, move the switch to the "O" STOP position.  I = ON to Run O = OFF to Stop

# **SYMBOLS**

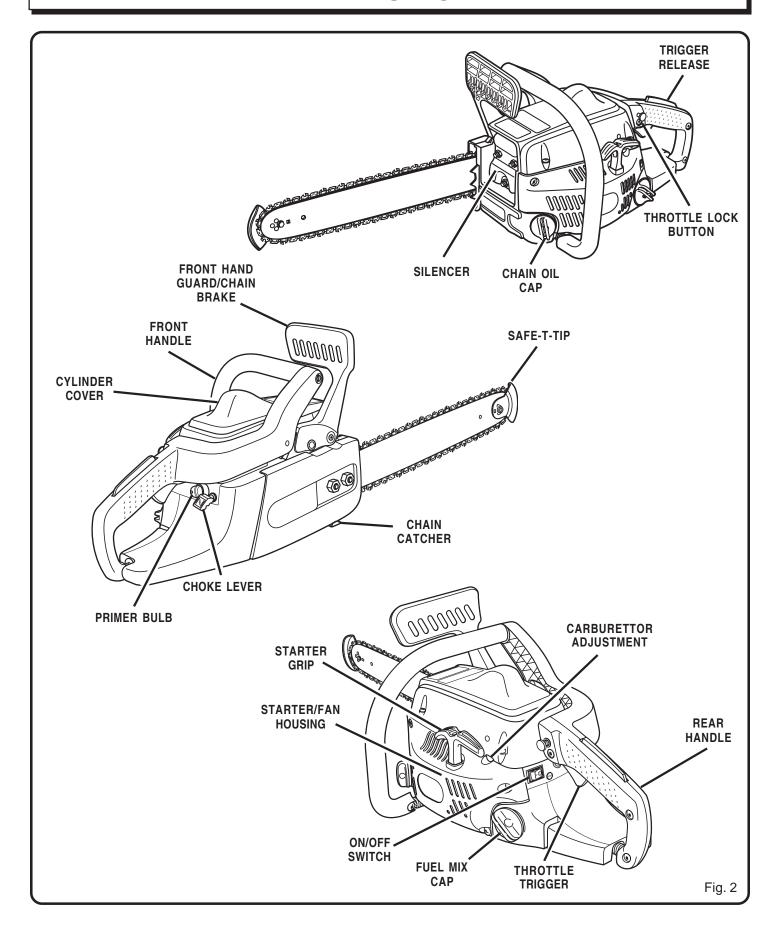
	No Smoking	Do not smoke when mixing fuel or filling fuel tank.
	Petrol	Use unleaded petrol intended for motor vehicle use with an octane rating of 87 ([R + M] / 2) or higher.
<b>*</b>	Oil	Use 2-cycle oil for air cooled engines.
	Mix Petrol and Oil	Mix the fuel mix thoroughly and also each time before refuelling.

# **SAVE THESE INSTRUCTIONS**

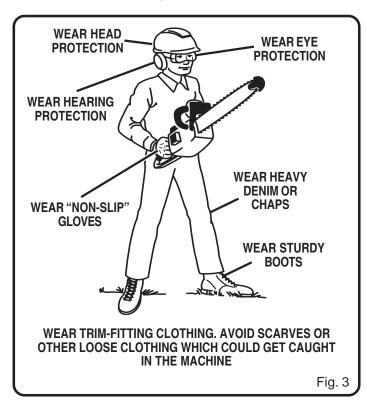
# **SPECIFICATIONS**

Weight - No bar, chain, fuel or oil	4.4 kg (9.7 lbs.)
Fuel tank capacity	
Oil tank capacity	350 cm³ (11.8 oz.)
Bar lengths	33 - 46 cm (12 - 16 in.)
Chain pitch	
Chain gauge	1.25 mm (.050 in.)
Chain type	
Drive sprocket	
Engine displacement	33 cm³ (2.0 cu. in.)
Maximum engine power (ISO 7293)	
Maximum engine speed with attachment	12,500/min <sup>-1</sup>
Idle engine speed	2,600 - 3,400/min <sup>-1</sup>
Sound pressure level (ISO 7182)	99.4 LpA / dBA
Sound power level (ISO 9207)	112.0 LwA / dBpA
Vibration (ISO 7505):	
Front Handle	4.3 M/S <sup>2</sup>
Rear Handle	

# **FEATURES**



For your safety, study this entire manual before operating the saw. Pay particular attention to the precautions and instructions listed in the operator's manual.





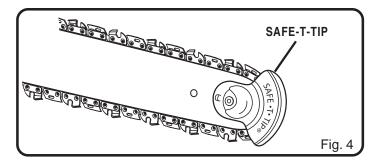
# **WARNING:**

The warnings and instructions in this section of the operator's manual are for your safety and to prevent serious personal injury.

### UNDERSTANDING YOUR CHAINSAW SAFETY DEVICES

### SAFE-T-TIP ANTI-KICK-BACK NOSE GUARD See Figure 4.

The SAFE-T-TIP prevents kick-back because it covers the tip of the bar where rotational kick-back is generated. Inexperienced persons should never attempt to cut when the SAFE-T-TIP has been removed from the bar tip.



Users, such as professional loggers who need to draw the tip through the cut, make boring cuts, or cut logs bigger than the bar length, should reinstall the SAFE-T-TIP as soon as those cuts are complete. When cutting without the SAFE-T-TIP, the user must use proper techniques as shown in the manual to avoid kick-back.

NOTE: Refer to "Maintenance" later in this manual for instructions on reinstalling the SAFE-T-TIP nose guard.

### LOW KICK-BACK SAW CHAIN

The rakers (depth gauges) ahead of each cutter can minimise the force of a kick-back reaction by preventing the cutters from digging in too deeply at the kick-back zone. Only use replacement chain which is equivalent to the original chain or has been certified as a low kick-back chain.

As saw chains are sharpened, they lose some of the low kick-back qualities and extra caution is required.

### **GUIDE BARS**

Generally, guide bars with small radius tips have somewhat lower kick-back potentials.

When making a replacement, be sure to order one of the Homelite bars listed for your saw in this operator's manual. The proper size SAFE-T-TIP nose guard comes installed on the bar. Use only guide bars which have a provision for mounting the SAFE-T-TIP.

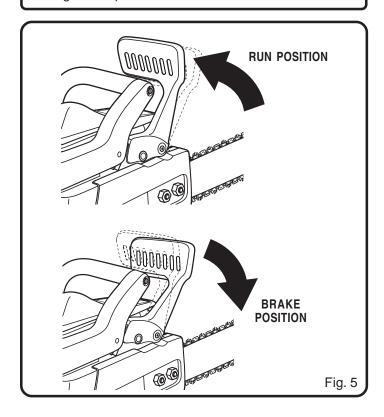
### **CHAIN BRAKE**

Chain brakes are designed to quickly stop the chain from rotating. When the chain brake lever/hand guard is pushed towards the bar, the chain should stop immediately. A chain brake does not prevent kick-back.

The chain brake should be cleaned and tested daily. Refer to "Operation" later in this manual for additional information.

### **WARNING:**

Even with daily cleaning of the mechanism, the dependability of a chain brake to perform under field conditions cannot be certified. Keep the SAFE-T-TIP nose guard on the saw guide bar and use proper cutting techniques.



### WARNING:

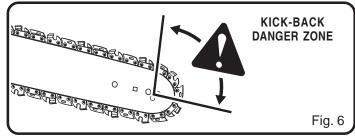
KICK-BACK occurs when the moving chain contacts an object at the upper portion of the tip of the guide bar or when the wood closes in and pinches the saw chain in the cut. Contact at the upper portion of the tip of the guide bar may cause the chain to dig into the object and stop the chain for an instant.

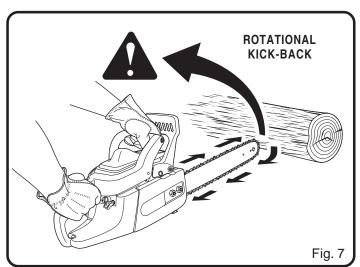
The result is a lightning-fast, reverse reaction which kicks the guide bar up and back towards the operator. If the saw chain is pinched along the top of the guide bar, the guide bar can be driven rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw, which could result in serious injury.

Do not rely exclusively on the safety devices built into the saw. As a chainsaw user, you should take several steps to keep your cutting jobs free from accident or injury.

### KICK-BACK PRECAUTIONS

Rotational kick-back occurs when the moving chain contacts an object at the Kick-back Danger Zone of the guide bar. The result is a lightning-fast, reverse reaction which kicks the guide bar up and back towards the operator. This reaction can cause loss of control which may result in serious injury.







### WARNING:

Always turn off engine before refuelling. Never add fuel to a machine with a running or hot engine. Move at least 9 m (30 ft.) from refuelling site before starting the engine. DO NOT SMOKE! Failure to heed this warning can result in possible personal injury.

# FUEL AND REFUELLING HANDLING THE FUEL SAFELY

### WARNING:

Check for fuel leaks. If any are found, correct them before using the saw to prevent fire or burn injury.

- Always handle fuel with care; it is highly flammable.
- Always refuel outdoors and do not inhale fuel vapour.
- Do not let petrol or oil come in contact with skin.
- Keep petrol and oil away from the eyes. If petrol or oil comes in contact with the eyes, wash them immediately with clean water. If irritation is still present, see a doctor immediately.
- Clean up spilled fuel immediately.

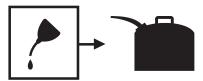
### MIXING THE FUEL

- This product is powered by a 2-cycle engine and requires pre-mixing petrol and 2-cycle oil. Pre-mix unleaded petrol and 2-cycle engine oil in a clean container approved for petrol.
- This engine is certified to operate on unleaded petrol intended for motor vehicle use with an octane rating of 87 ([R + M] / 2) or higher.
- Do not use any type of pre-mixed petrol/oil from fuel service stations. This includes the pre-mixed petrol/oil intended for use in mopeds, motorcycles etc.
- Use a high quality 2-cycle self-mixing oil for air-cooled engines. Do not use motor vehicle oil or 2-cycle outboard oil.

- Mix 2% oil into the petrol. This is a 50:1 ratio.
- Mix the fuel thoroughly and each time before refuelling.
- Mix in small quantities. Do not mix quantities larger than usable in a 30-day period. A 2-cycle oil containing a fuel stabiliser is recommended.





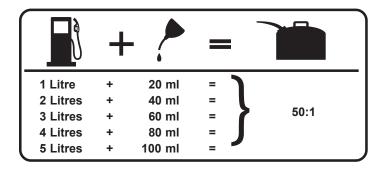


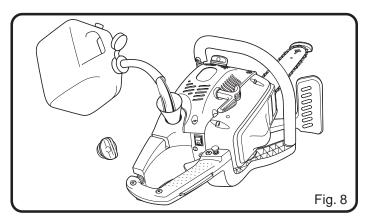
### FILLING THE TANK

Refer to "Specific Safety Rules – Refuelling" earlier in this manual for additional safety information.

- 1. Clean the surface round fuel cap to prevent contamination.
- 2. Loosen the fuel cap slowly.
- **3.** Carefully pour the fuel mixture into the tank. Avoid spillage. See Figure 8.
- 4. Before replacing the fuel cap, clean and inspect the gasket.
- **5.** Immediately replace the fuel cap and hand tighten. Wipe up any fuel spillage.

**NOTE:** It is normal for the engine to emit smoke during and after the first use.





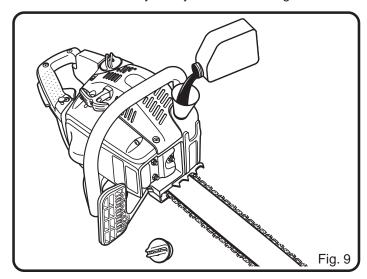
### **CHAIN OIL SYSTEM**

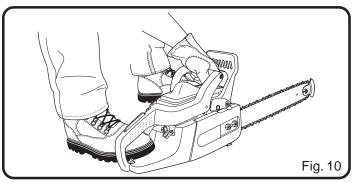
See Figure 9.

Use HOMELITE Bar and Chain Oil. It is designed for chains and chain oilers, and is formulated to perform over a wide temperature range with no dilution required. Chainsaw should use approximately one tank of oil per tank of fuel.

NOTE: Do not use dirty, used or otherwise contaminated oils. Damage may occur to the oil pump, bar or chain.

- 1. Carefully pour the bar and chain oil into the tank.
- 2. Fill the oil tank every time you refuel the engine.





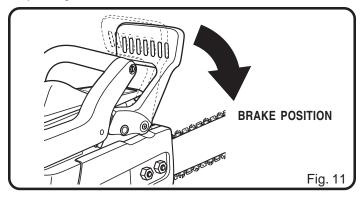
### STARTING THE ENGINE

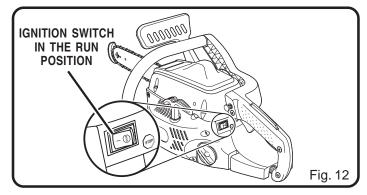
See Figures 10 to 19.

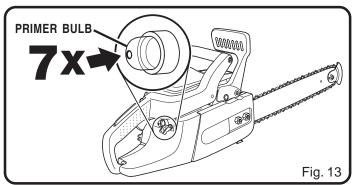
### WARNING:

Keep your body to the left of the chain line. Never straddle the saw or chain, or lean over past the chain line.

- 1. Place the chainsaw on level ground and ensure that no objects or obstructions which could come in contact with the bar and chain are in the immediate vicinity.
- 2. Hold the front handle firmly with the left hand and put your right foot onto the base of the rear handle.



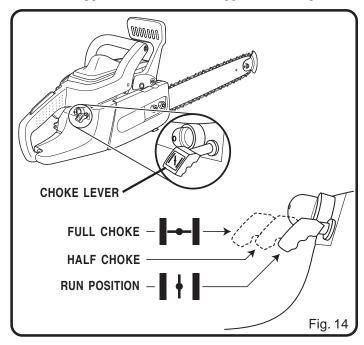


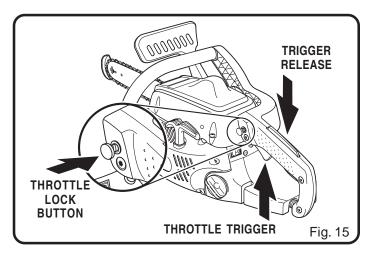


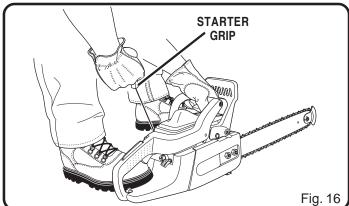
### STARTING A COLD ENGINE:

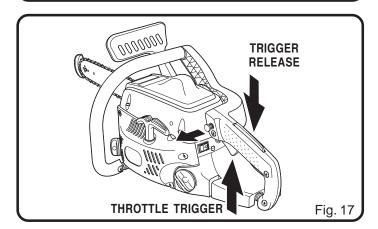
- 3. Move the chain brake to the BRAKE position.
  - **NOTE:** Set the chain brake by pushing the chain brake lever/hand guard forward (towards the bar) to the brake position. Refer to "Operation Operating the Chain Brake" later in this manual for additional information.
- 4. Set the ignition switch to the RUN (I) position.
- **5.** Fully press and release the PRIMER BULB 7 times.
- **6.** Pull CHOKE lever all the way OUT to full position.
- 7. Engage trigger release.

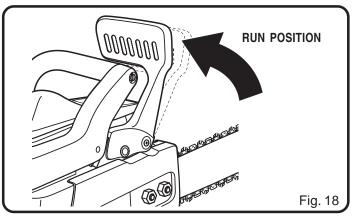
While squeezing both the trigger release and throttle trigger, push in the throttle lock button. Release the throttle trigger. This latches the trigger for starting.











**8.** Pull STARTER until engine attempts to start.

Slowly pull the starter grip out for a short distance until you feel the starter engage, then briskly pull straight up. Do not pull to the end of the rope; this may damage the starter. Hold onto the grip during rewinding.

Pull the starter rope until the first firing of the engine is heard (no more than five pulls).

NOTE: A new unit may require additional pulls.

- 9. Push choke lever to half choke position.
- **10.** Pull starter until engine runs.

**NOTE:** Allow the saw to run in this position 15-30 seconds, depending on the temperature.

- 11. Push choke lever all the way IN.
- 12. Immediately SQUEEZE and release the throttle trigger. Immediately depress the throttle trigger, which releases the trigger lock button. Squeeze and release the throttle trigger to let the engine idle.
- 13. Move chain brake to RUN position.
  Place chain brake lever/hand guard into the RUN position. Refer to "Operation Operating the Chain Brake" later in this manual for additional information.



### **CAUTION:**

Failure to release partial throttle when chain brake lever is in the brake position will result in serious damage to the unit. Never squeeze and hold the throttle trigger while the chain brake is in the brake position.

Now you are ready to pick up the saw. Use the proper grip for both handles. Refer to "Operation - Proper Grip on Handles" later in this manual for additional information.

### STARTING A WARM ENGINE:

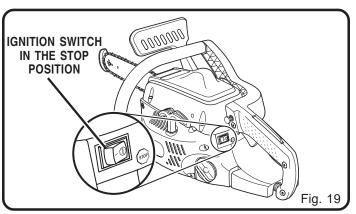
Follow the instructions for starting a cold engine (steps 1-9), but do not attempt to start in the full choke position (skip step 5). Push and release primer bulb 7 times. Pull the choke out and push back it in to the original run position.

### STOPPING THE ENGINE

Release the throttle trigger and let the engine return to idle. To stop the engine, move the ignition switch to the "O" stop position. Do not put the chainsaw on the ground when the chain is still moving. For additional safety, set the chain brake when the saw is not in use.

In the event that the ignition switch will not stop the saw, pull the choke lever out to the fully extended position (Full Choke / | ~ |) and engage chain brake to stop the engine. If the ignition switch will not stop the saw when set to the "O" stop position, have the ignition switch repaired before using the chainsaw again to prevent unsafe conditions or serious injury.

**Important:** When you have finished using the saw, relieve tank pressures by loosening the CHAIN OIL and FUEL MIX caps. Then retighten the caps. Allow the engine to cool before storing.



### PREPARING FOR CUTTING

### PROPER GRIP ON HANDLES

See Figures 20 and 21.

Refer to "Specific Safety Rules - Safety Apparel" earlier in this manual for appropriate safety equipment.

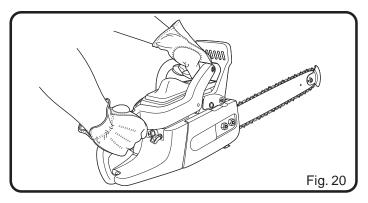
- Wear non-slip gloves for maximum grip and protection.
- Hold the saw firmly with both hands. Always keep your LEFT HAND on the front handle and your RIGHT HAND on the rear handle so that your body is to the left of the chain line.

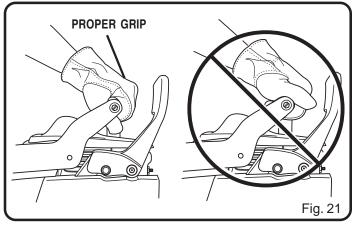


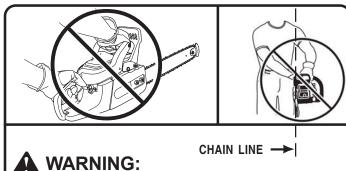
# WARNING:

Never use a left-handed (cross-handed) grip or any stance that would place your body or arm across the chain line.

Maintain a proper grip on the saw whenever the engine is running. The fingers should encircle the handle and the thumb be wrapped under the handlebar. This grip is least likely to be broken (by a kick-back or other sudden reaction of the saw). Any grip in which the thumb and fingers are on the same side of the handle is dangerous because a slight kick of the saw can cause loss of control.





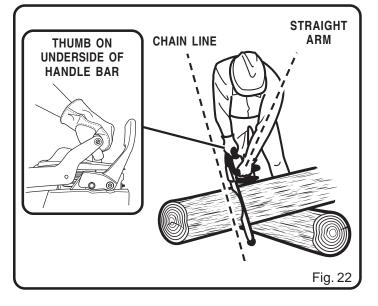


DO NOT operate the throttle trigger with your left hand and hold the front handle with your right hand. Never allow any part of your body to be in the chain line while operating a saw.

### PROPER CUTTING STANCE

See Figure 22.

- Balance your weight with both feet on solid ground.
- Keep left arm with elbow locked in a "straight arm" position to withstand any kick-back force.
- Keep your body to the left of the chain line.
- Keep your thumb on underside of handlebar.



### BASIC OPERATING/CUTTING PROCEDURES

Practise cutting a few small logs, using the following technique to get the "feel" of using the saw before you begin a major sawing operation.

- **1.** Take the proper stance in front of the wood with the saw idling.
- **2.** Accelerate the engine to full throttle just before entering the cut by squeezing the throttle trigger.
- 3. Begin cutting with the saw against the log.
- **4.** Keep the engine at full throttle the entire time you are cutting.
- 5. Allow the chain to cut for you; exert only light downward pressure. Forcing the cut could result in damage to the bar, chain or engine.
- **6.** Release the throttle trigger as soon as the cut is completed, allowing the engine to idle. Running the saw at full throttle without a cutting load may result in unnecessary wear to the chain, bar and engine.
- 7. Do not put pressure on the saw at the end of the cut.

### **WORK AREA PRECAUTIONS**

- Cut only wood or materials made from wood; no sheet metal, no plastics, no masonry, no non-wood building materials.
- Never allow children to operate your saw. Allow no person to use this chainsaw who has not read this operator's manual or received adequate instructions for the safe and proper use of this chainsaw.
- Keep everyone helpers, bystanders, children and animals— a SAFE DISTANCE from the cutting area. During felling operations, the safe distance should be a least twice the height of the largest trees in the felling area. During bucking operations, keep a minimum distance of 4.5 m (15 ft) between workers.

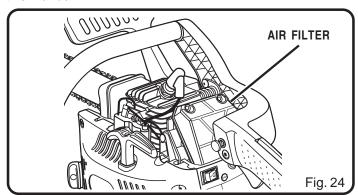


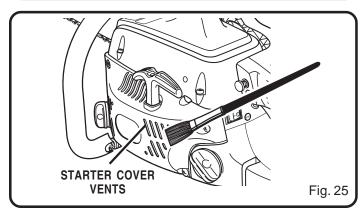
- Always cut with both feet on solid ground to prevent being pulled off balance.
- Do not cut above chest height, as a saw held higher is difficult to control against kick-back forces.
- Do not fell trees near electrical wires or buildings. Leave this operation for professionals.
- Cut only when visibility and light are adequate to see clearly.

### ADJUSTING THE CARBURETTOR

See Figures 24 and 25.

Before adjusting the carburettor, clean the air filter and the starter cover vents. Allow the engine to warm up before carburettor adjustment. Refer to "Maintenance" later in this manual.





The carburettor is factory set and should not require adjusting. The carburettor will permit only limited adjustment of the "L" (Low Jet) and "H" (High Jet) needles. Any adjustment should be done by a Homelite service dealer.

Under no circumstances should the "L" (Low Jet) and "H" (High Jet) needles be forced outside the range of adjustment.



### A CAUTION:

Serious damage may occur to the engine if improper adjustments are made to the "L" and "H" needles.

Do not force the "L" and "H" needles outside the adjustment range!

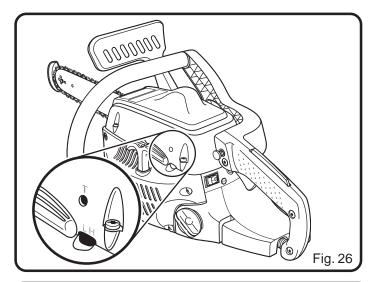
### ADJUSTING IDLING SPEED

- If the engine starts, runs, and accelerates but will not idle, turn the idling speed screw "T" clockwise to increase idling speed.
- If the chain turns at idle, turn the idling speed screw "T" anticlockwise to reduce the idling RPM and stop the chain movement. If the saw chain still moves at idling speed, contact a Homelite service dealer for adjustment and discontinue use until the repair is made.

### **WARNING:**

THE SAW CHAIN SHOULD NEVER TURN AT IDLE. Turn the idling speed screw "T" anticlockwise to reduce the idling RPM and stop the chain, or contact a Homelite service dealer for adjustment and discontinue use until the repair is made.

Serious personal injury may result from the saw chain turning at idle.



### WARNING:

Weather conditions and altitude may affect carburation. Do not allow bystanders close to the chainsaw while adjusting the carburettor.

### OPERATING THE CHAIN BRAKE

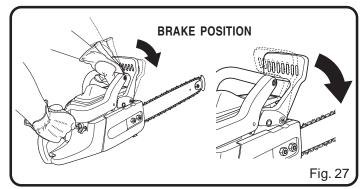
Refer to "Safety" earlier in this manual for additional information.

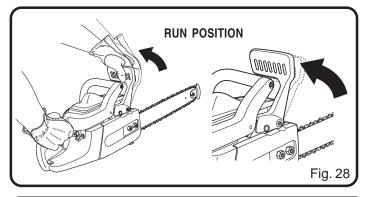
Check the operating condition of the chain brake before each use.

- 1. Start the engine and grasp the front and rear handles securely with both hands.
- 2. Pull the throttle trigger to bring the chainsaw up to full speed. Using the back of your left hand, engage the chain brake by pushing the chain brake lever/hand guard towards the bar while the chain is rotating rapidly. See Figure 27.

NOTE: The chain brake should engage and stop the chain immediately. If not, stop the saw by placing the ignition switch in the "O" stop position. Take the saw to a Homelite service dealer for repair and discontinue use until the repair is made.

3. Reset the chain brake back into the RUN position by grasping the right-hand side (from operator's position) of the chain brake lever/hand guard and pull towards the front handle until you hear a click. See Figure 28.







### WARNING:

If the chain brake does not stop the chain immediately, take the saw to a Homelite service dealer for repair before use.

# **FELLING TREES HAZARDOUS CONDITIONS**

See Figure 29.



### **▲** WARNING:

Do not fell trees during periods of high wind or heavy precipitation. Wait until the hazardous weather has ended.

When felling a tree, it is important that you heed the following warnings to prevent possible serious injury.

- Wear eye, hearing and head protection when operating this equipment.
- Do not cut down trees having an extreme lean or large trees with rotten or dead limbs, loose bark or hollow trunks. Have these trees pushed or dragged down with heavy equipment, then cut them up.
- Consider the distribution and weight of heavy limbs.
- Clear out the underbrush around the tree to be felled.
- Do not cut trees near electrical wires or buildings.
- Consider the direction in which the tree leans.
- Check the tree for damaged or dead branches which could fall and hit you during felling.
- Periodically glance at the top of the tree during the back-cut to assure the tree is going to fall in the desired direction.
- Keep all bystanders at a safe distance (at least twice the height of the tree).
- Prepare a path of safe retreat.
- If the tree starts to fall in the wrong direction, or if the saw gets caught or hung up during the fall, leave the saw and save yourself!
- Consider the wind direction before felling a tree.
- Do not fell trees near power lines or near buildings which could be struck by falling limbs or the tree itself.
- The chainsaw operator should keep on the uphill side of the terrain as the tree is likely to roll or slide downhill after it is felled.
- Remove dirt, stones, loose bark, nails, staples and wire from the tree where felling cuts are to be made.



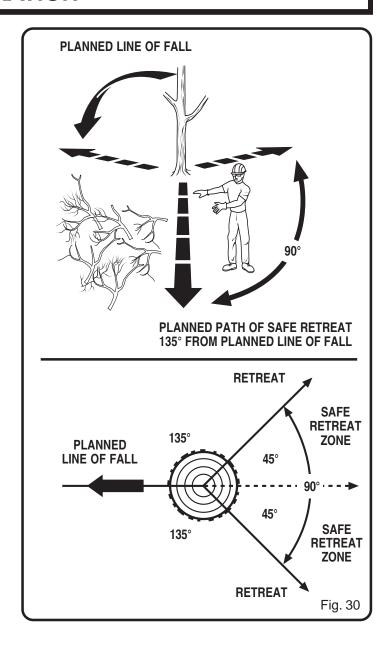
### WARNING:

Do NOT fell trees near power lines or near buildings which could be struck by falling limbs or the tree itself.



# PROPER PROCEDURE FOR TREE FELLING See Figure 30.

- Pick your escape route (or routes in case the intended route is blocked). Clear the immediate area round the tree and make sure there are no obstructions in your planned path of retreat. Clear the path of safe retreat approximately 135° from the planned line of fall.
- 2. Consider the force and direction of the wind, the lean and balance of the tree, and the location of large limbs. These things influence the direction in which the tree will fall. Do not try to fell a tree along a line different from its natural line of fall.



- 3. Cut a notch about one-third the diameter of the trunk in the side of the tree. Make the notch cuts so they intersect at right angles to the line of fall. This notch should be cleaned out to leave a straight line. To keep the weight of the wood off the saw, always make the lower cut of the notch before the upper cut. See Figure 31.
- 4. Make the back-cut level and horizontal, and at a minimum of 5 cm (2 in.) above the horizontal cut of the notch. See Figure 31.

NOTE: Never cut through to the notch. Always leave a band of wood between the notch and back cut (approximately 5 cm (2 in.) or one-tenth the diameter of the tree). This is called "hinge" or "hinge wood". It controls the fall of the tree and prevents slipping or twisting or shoot-back of the tree off the stump. See Figure 32.

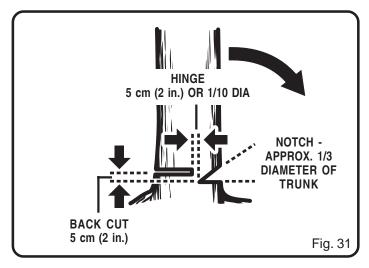
On large diameter trees, stop the back cut before it is deep enough for the tree to either fall or settle back on the stump. Then insert soft wooden or plastic wedges into the cut so they do not touch the chain. Drive wedges in, little by little, to help jack the tree over. See Figure 33.

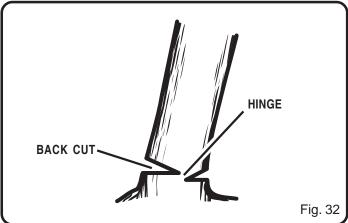
When bucking or felling with a wedge, it may be necessary to remove the SAFE-T-TIP anti-kick-back device to allow the bar to be drawn through the cut. After you complete the cut, reinstall the tip immediately.

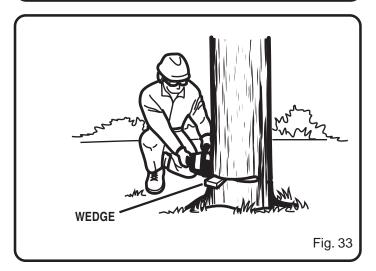
5. As tree starts to fall, stop the chainsaw and put it down immediately. Retreat along the cleared path, but watch the action in case something falls your way.

### WARNING:

Never cut through to the notch when making a back cut. The hinge controls the fall of the tree: this is the section of wood between the notch and back cut.







### REMOVING BUTTRESS ROOTS

A buttress root is a large root extending from the trunk of the tree above the ground. Remove large buttress roots before felling. Make the horizontal cut into the buttress first, followed by the vertical cut. Remove the resulting loose section from the work area. Follow the correct tree felling procedure after you have removed the large buttress roots. Refer to "Operation – Proper Procedure for Tree Felling" earlier in this manual.

### **BUCKING**

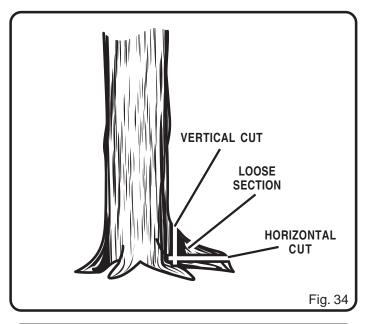
Bucking is the term used for cutting a fallen tree to the desired log length.

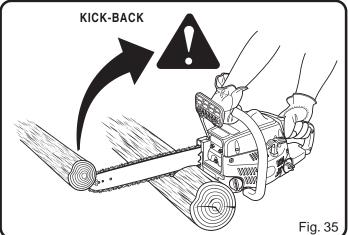
- Cut only one log at a time.
- Support small logs on a saw horse or another log while bucking.
- Keep a clear cutting area. Make sure that no objects can contact the guide bar nose and chain during cutting; this can cause kick-back. To avoid the danger, keep the SAFE-T-TIP anti-kick-back device attached while cutting. Refer to "Safety – Kick-back" earlier in this manual.
- During bucking operations, stand on the uphill side so that the cut-off section of the log cannot roll over you.
- Sometimes it is impossible to avoid pinching (with just standard cutting techniques) or difficult to predict which way a log will settle when cut.

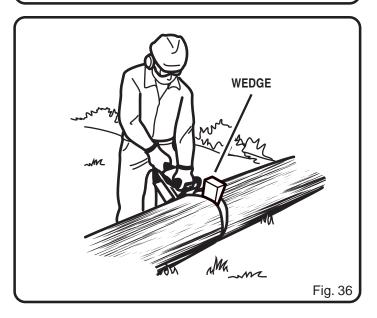
### **BUCKING WITH A WEDGE**

If the wood diameter is large enough for you to insert a soft bucking wedge without touching the chain, you should use the wedge to hold the cut open to prevent pinching.

**NOTE:** When bucking or felling with a wedge, you may need to remove the SAFE-T-TIP anti-kick-back device to allow the bar to be drawn through the cut. After you complete the cut, reinstall the tip.







### **BUCKING LOGS UNDER STRESS**

Make the first bucking cut one-third of the way through the log and finish with a two-thirds cut on the opposite side. As you cut the log, it will tend to bend. The saw can become pinched or hung in the log if you make the first cut deeper than one-third of the diameter of the log.

Give special attention to logs under stress to prevent the bar and chain from pinching.

### **OVERBUCKING**

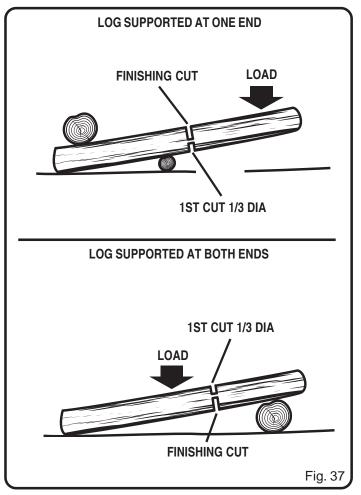
See Figure 38.

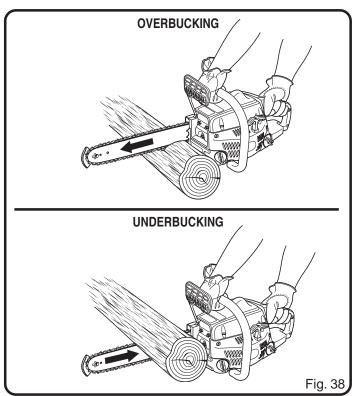
Begin on the top side of the log with the bottom of the saw against the log; exert light pressure downward. Note that the saw will tend to pull away from you.

### **UNDERBUCKING**

See Figure 38.

Begin on the under side of the log with the top of the saw against the log; exert light pressure upward. During underbucking, the saw will tend to push back at you. Be prepared for this reaction and hold the saw firmly to maintain control.





### LIMBING AND PRUNING

See Figure 39.

- Work slowly, keeping both hands on the saw with a firm grip. Maintain secure footing and balance.
- Keep the tree between you and the chain while limbing. Cut from the side of the tree opposite the branch you are cutting.
- Do not cut from a ladder: this is extremely dangerous. Leave this operation for professionals.
- Do not cut above chest height, as a saw held higher is difficult to control against kick-back.



### WARNING:

Never climb into a tree to limb or prune. Do not stand on ladders, platforms, a log or in any position which may cause you to lose your balance or control of the saw.

- When pruning trees it is important not to make the flush cut next to the main limb or trunk until you have cut off the limb further out to reduce the weight. This prevents stripping the bark from the main member.
  - 1. Underbuck the branch one-third through for your first cut.
  - 2. Overbuck the branch to drop it.
  - 3. Finish by cutting smoothly and neatly against the main member so the bark will grow back to seal the wound.



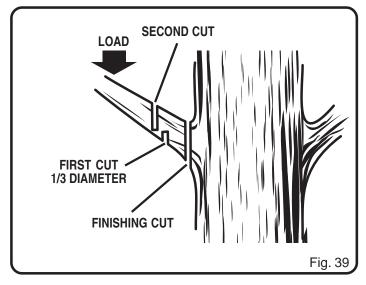
### WARNING:

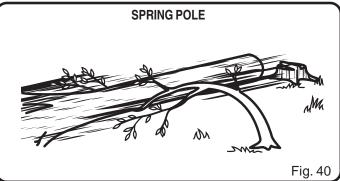
If the limbs to be pruned are above chest height, hire a professional to perform the pruning.

### **CUTTING SPRING POLES**

See Figure 40.

A spring pole is any log, branch, rooted stump or sapling bent under tension by other wood so that it springs back if the wood holding it is cut or removed. On a fallen tree, a rooted stump has a high potential of springing back to the upright position during the bucking cut to separate the log from the stump. Watch out for spring poles; they are dangerous.







### WARNING:

Spring poles are dangerous and could strike the erator, causing loss of control of the chainsaw. This could result in severe or fatal injury to the operator.

### ASSEMBLING THE BAR AND CHAIN

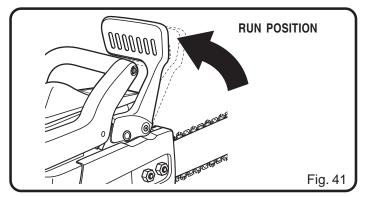
# A DANGER:

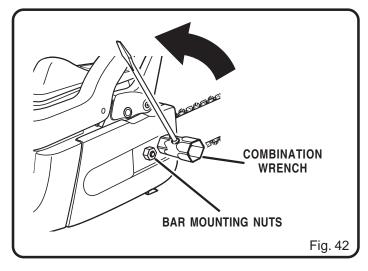
Never start the engine before installing the guide bar, chain, drive case cover, and clutch drum. Without all these parts in place, the clutch may fly off or explode, exposing the user to possible serious injury.

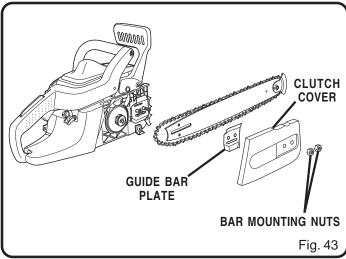
### WARNING:

To avoid serious personal injury, read and understand all the safety instructions in this section.

- 1. Always place the switch in the stop "O" position before you work on the saw.
- 2. Make sure the chain brake is not set by pulling the chain brake lever/hand guard towards the front handle to the RUN position.
- 3. Wear gloves when handling the chain and bar. These components are sharp and may contain burrs.
- 4. Remove the bar mounting nuts using a combination wrench or a 5/8 in. spanner.
- 5. Remove the clutch cover and the outer guide bar plate.

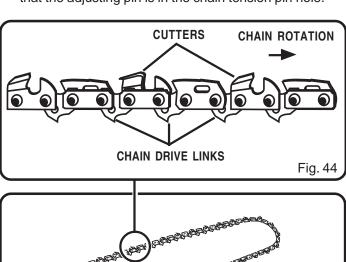


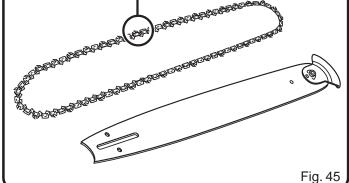


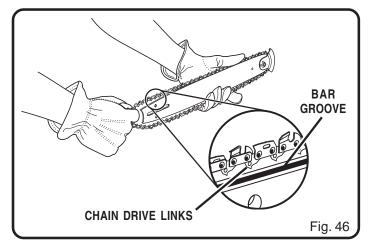


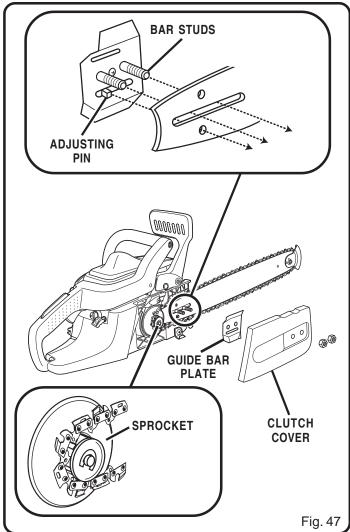
- **6.** Lay out the saw chain in a loop and straighten any kinks. The cutters should face in the direction of chain rotation. If they face backwards, turn the loop over. See Figure 45.
- **7.** Place the chain drive links into the bar groove. See Figure 46.
- **8.** Position the chain so there is a loop at the back of the bar.
- **9.** Hold the chain in position on the bar and place the loop round the sprocket.
- **10.** Fit the bar flush against the mounting surface so that the bar studs are in the long slot of the bar.

**NOTE:** When placing the bar on the bar studs, ensure that the adjusting pin is in the chain tension pin hole.

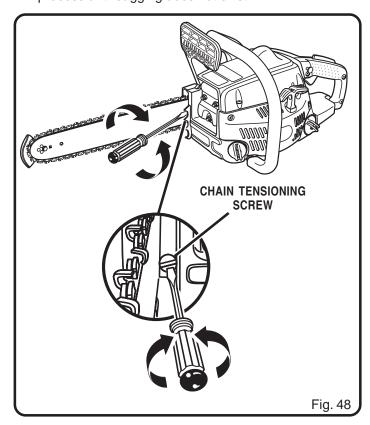


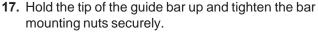






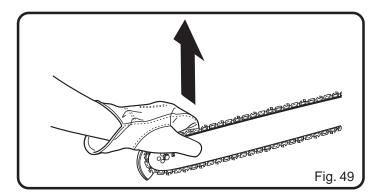
- 11. Replace the outer guide bar plate, ensuring that the bar pin groove is at the bottom with the upper and lower edges angled away from the guide bar.
- 12. Replace the clutch cover and bar mounting nuts.
- **13.** Tighten the bar mounting nuts finger tight only. The bar must be free to move for tension adjustment.
- **14.** Remove all slack from the chain by turning the chain tensioning screw clockwise until the chain seats snugly against the bar with the drive links in the bar groove.
- 15. Lift the tip of the guide bar up to check for sagging.
- **16.** Release the tip of the guide bar and turn the chain tensioning screw half a turn clockwise. Repeat this process until sagging does not exist.

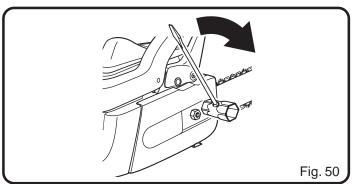


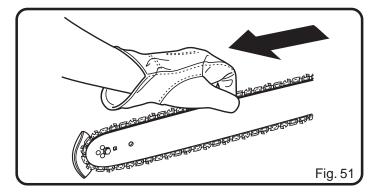


The chain is correctly tensioned when there is no sagging on the underside of the guide bar and the chain is snug but can be turned by hand without binding. Ensure that the chain brake is not set. See Figure 51.

**NOTE:** If chain is too tight, it will not rotate. Loosen the bar nuts slightly and turn the tension adjuster a quarter turn anticlockwise. Lift the tip of the guide bar up and retighten the bar nuts securely. Ensure that the chain will rotate without binding.







### ADJUSTING THE CHAIN TENSION

See Figures 52, 53 and 54.



### WARNING:

Never touch or adjust the chain while the motor is running. The saw chain is very sharp. Always wear protective gloves when performing maintenance on the chain.

- 1. Stop the engine before setting the chain tension.
- 2. Make sure the guide bar nuts are loosened to finger-tight and turn the chain tensioner clockwise to tension the chain.

NOTE: A cold chain is correctly tensioned when there is no slack on the underside of the guide bar, the chain is snug and it can be turned by hand without binding.

3. Re-tension the chain whenever the flats on the drive links hang out of the bar groove.

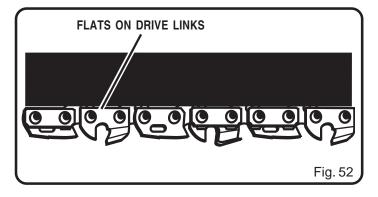
NOTE: During normal saw operation, the temperature of the chain increases. The drive links of a correctly tensioned warm chain will hang approximately 1.25 mm (0.050 in.) out of the bar groove. To help determine the correct warm chain tension, the tip of the combination wrench can be used as a guide.

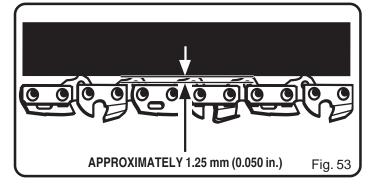
NOTE: New chain tends to stretch. Check the chain tension frequently and tension as required.

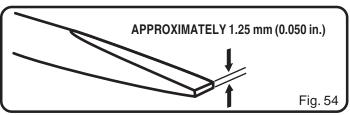


### **CAUTION:**

A chain tensioned while warm may be too tight on cooling. Check the "cold tension" before next use.







### CHAIN MAINTENANCE



### A CAUTION:

Check that the switch is in the STOP "( position before working on the saw.

Use only a low-kick-back chain on this saw. This fast-cutting chain provides kick-back reduction when properly maintained.

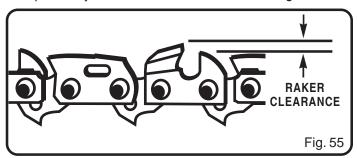
For smooth and fast cutting, maintain the chain properly.

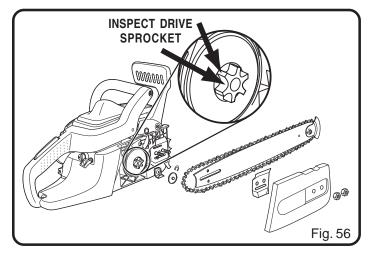
The chain requires sharpening when the wood chips are small and powdery, the chain must be forced through the wood during cutting, or the chain cuts to one side. During maintenance of the chain, consider the following:

Improper filing angle of the side plate increases the risk of a severe kick-back.

- Raker (depth gauge) clearance. See Figure 55.
  - 1. Too low increases the potential for kick-back.
  - 2. Not low enough decreases cutting ability.
- If the cutter teeth hit hard objects such as nails and stones, or are abraded by mud or sand on the wood, let the Homelite service dealer sharpen the chain.

**NOTE:** Inspect the drive sprocket for wear or damage when replacing the chain. If signs of wear or damage are present in the areas indicated, have the drive sprocket replaced by a Homelite service dealer. *See Figure 56*.





### SHARPENING THE CUTTERS

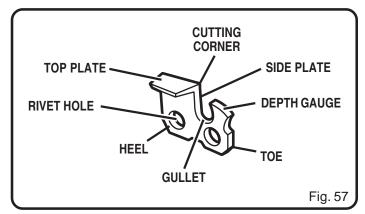
See Figures 57 to 62.

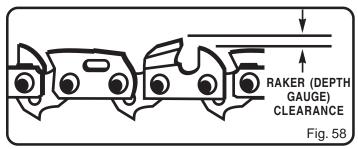
Be careful to file all cutters to the specified angles and to the same length, as fast cutting can only be obtained when all cutters are uniform.

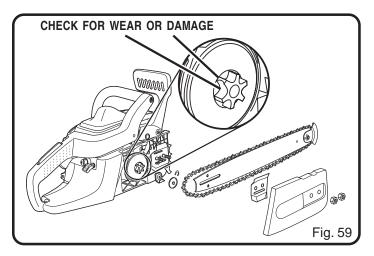
- 1. Wear gloves for protection.
- 2. Tension the chain before sharpening.

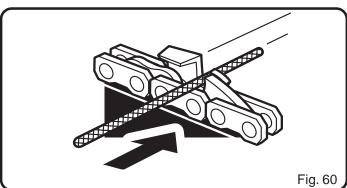
**NOTE:** Refer to "Maintenance – Adjusting the Chain Tension" earlier in this manual.

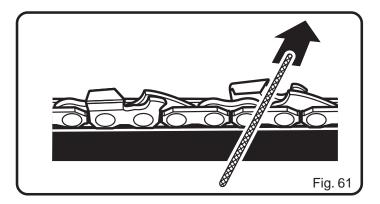
- 3. Use a 5/32 in. diameter round file and holder. Do all filing at the midpoint of the bar.
- **4.** Keep the file level with the top plate of the tooth. Do not let the file dip or rock.
- **5.** Using light but firm pressure. Stroke towards the front corner of the tooth.
- **6.** Lift the file away from the steel on each return stroke.
- 7. Put a few firm strokes on every tooth. File all left hand cutters in one direction. Then move to the other side and file the right hand cutters in the opposite direction.
- 8. Remove filings from the file with a wire brush.

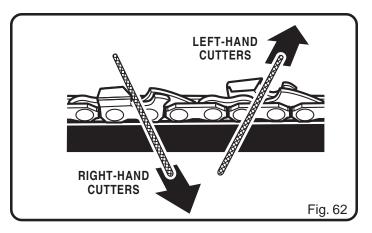












# **A** CAUTION:

A dull or improperly sharpened chain can cause excessive engine speed during cutting which may result in severe engine damage.

# **WARNING:**

Improper chain sharpening increases the potential of kick-back.

# **WARNING:**

Failure to replace or repair a damaged chain can cause serious injury.

# **WARNING:**

The saw chain is very sharp. Always wear protective gloves when performing maintenance on the chain.

### TOP PLATE FILING ANGLE

- CORRECT 30° file holders are marked with guide marks to align file properly to produce correct top plate angle.
- LESS THAN 30° for cross cutting.
- MORE THAN 30° feathered edge dulls quickly.

### SIDE PLATE ANGLE

- CORRECT 80° Produced automatically if you use the correct diameter file in the file holder.
- HOOK "Grabs" and dulls quickly, increases the potential of KICK-BACK.

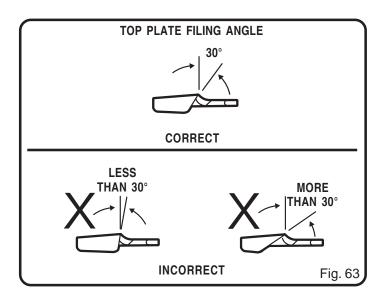
Results from using a file with a diameter too small or a file held too low.

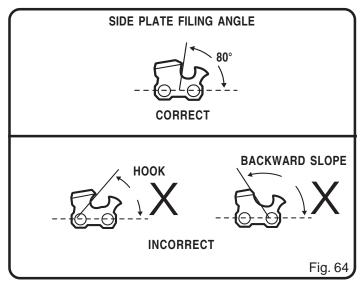
■ BACKWARD SLOPE – Needs too much feed pressure, causes excessive wear to the bar and chain.

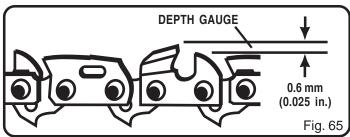
Results from using a file with a diameter too large or file held too high.

### MAINTAINING DEPTH GAUGE CLEARANCE

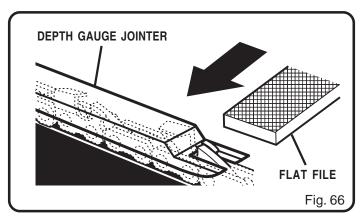
- Maintain the depth gauge at a clearance of 0.6 mm (0.025 in.). Use a depth gauge tool for checking the depth gauge clearances.
- Every time the chain is filed, check the depth gauge clearance.

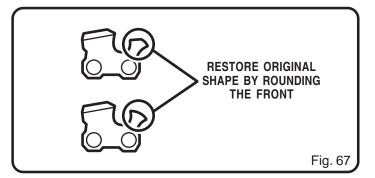






- Use a flat file and a depth gauge jointer to lower all gauges uniformly. Use a 0.6 mm (0.025 in.) depth gauge jointer. After lowering each depth gauge, restore original shape by rounding the front. Be careful not to damage adjoining drive links with the edge of the file. See Figures 65 and 66.
- Depth gauges must be adjusted with the flat file in the same direction the adjoining cutter was filed with the round file. Use care not to contact cutter face with flat file when adjusting depth gauges.





### MAINTAINING THE GUIDE BAR

See Figure 68.



### **CAUTION:**

Make sure the chain has stopped before you do any work on the saw.

Every week of use, reverse the guide bar on the saw to distribute the wear for maximum bar life. The bar should be cleaned every day of use and checked for wear and damage.

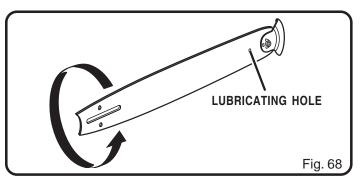
Feathering or burring of the bar rails is a normal process of bar wear. Such faults should be smoothed with a file as soon as they occur.

A bar with any of the following faults should be replaced:

- Wear inside the bar rails which permits the chain to lie over sideways
- Bent guide bar
- Cracked or broken rails
- Spread rails

In addition, lubricate guide bars (with a sprocket at their tip) weekly. Using a grease syringe, lubricate weekly in the lubricating hole.

Turn the guide bar and check that the lubrication holes and chain groove are free from impurities.



### MAINTAINING THE SAFE-T-TIP NOSE **GUARD**

See Figures 69 and 70.



### CAUTION:

Make sure the chain has stopped before you do any work on the saw.



### WARNING:

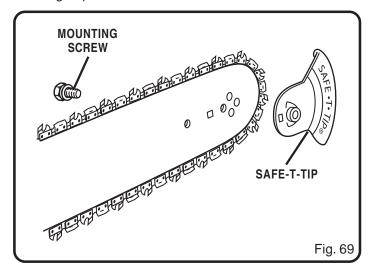
Although the guide bar comes with a SAFE-T-TIP antikick-back device already installed, you need to check the tightness of the mounting screw before each use.

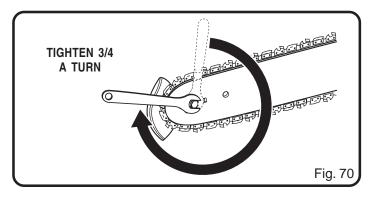
Tighten the mounting screw of the nose guard as instructed below. These are specially hardened screws. If you cannot install the screw tightly, replace both the screw and the SAFE-T-TIP before further operation. Do not replace the screw with an ordinary screw.

In addition to preventing chain contact with solid objects at the nose of the bar, the SAFE-T-TIP also helps keep the chain away from abrasive surfaces, such as the ground. Keep it on the right-hand side of the bar where it will be between the chain and the ground during flush with ground cutting.

The mounting screw requires a 5/16 in. spanner (or adjustable spanner) to achieve the recommended tightness of 4-5 Nm (35 - 45 in. lb.). A tightness within this range can be achieved by using the following method.

- 1. Tighten the screw with your finger.
- 2. Tighten the screw an additional three-quarters of a turn using a spanner.





# **MOUNTING THE SAFE-T-TIP® NOSE GUARD**See Figures 69 and 70.

See Figures 09 and 70.

- 1. Mount the SAFE-T-TIP on the bar nose.
- 2. Fit the locking rivet or tab in the recessed hole in the guide bar.
- 3. Tighten the screw with your finger.
- **4.** From the finger tight position, tighten the screw an additional three-quarters of a turn using a spanner.

### **CLEANING THE AIR FILTER**

See Figures 71, 72 and 73.

**NOTE**: Always clean the air filter before making any mixture adjustments of the carburettor.

- 1. For access to the air filter and carburettor area, loosen the three screws holding the cylinder cover.
- 2. Activate chain brake.
- 3. Lift the front of the cylinder cover past chain brake lever.
- 4. Lift the back of the cylinder cover past the handle.
- **5.** Before removing the air filter from the carburettor, blow or brush as much loose dirt and sawdust from round the carburettor and chamber as possible.

**NOTE:** Be sure to pull the choke rod out to keep the carburettor from being contaminated.

- 6. Remove the screw securing the air filter.
- 7. Position a flat screw driver between the tabs and twist as shown in the illustration.
- 8. Lift the air filter off the air filter base.

Choose one of the following cleaning options:

- **9.** To lightly clean, tap the filter against a smooth, flat surface to dislodge most saw dust and dirt particles.
- **10.** For a more thorough cleaning, clean in warm soapy water, rinse, and let dry completely.

**NOTE:** An alternative method is to clean the filter with compressed air (always wear eye protection to avoid eye injury).

**11.** Reinstall the air filter, making sure that the tabs on the air filter are located in channels on the air filter bottom before tightening filter retainer screw.

Clean the pre-filter every 25 tanks of fuel or sooner, if required. Remove the cylinder cover, starter assembly and the fan housing baffle for access to the pre-filter in the engine housing.

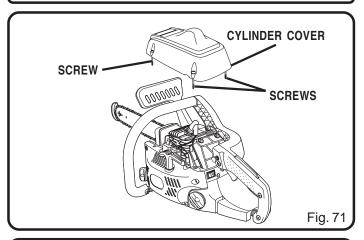
**NOTE**: If you use an air hose for drying, blow through both sides of filter.

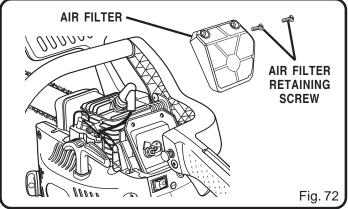
# Δ

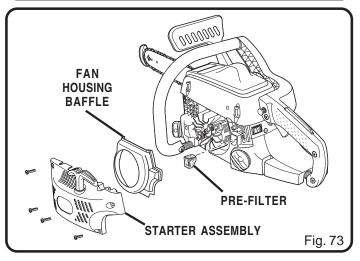
### **CAUTION:**

Never run the engine without the air filter, serious damage could result.

Make sure the air filter is correctly placed in the air filter cover before reassembly.

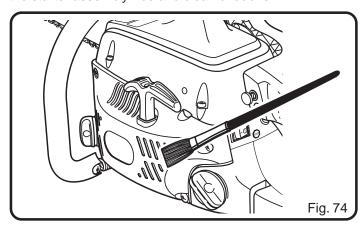






### CLEANING THE STARTER UNIT

Use a brush or compressed air to keep the cooling vents of the starter assembly free and clean of debris.



### **CLEANING THE ENGINE**

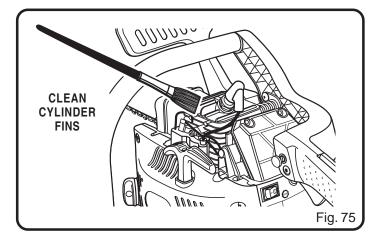
Clean the cylinder fins and flywheel fins with compressed air or a brush periodically. Dangerous overheating of the engine may occur due to impurities on the cylinder.



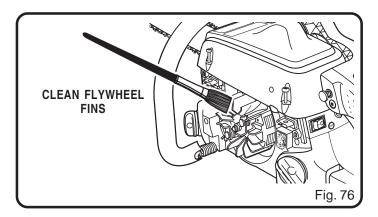
### WARNING

Never run the saw without all the parts, including the drive case cover and starter housing, securely in place.

Because parts can fracture and pose a danger of thrown objects, leave repairs of the flywheel and clutch to trained Homelite service dealer personnel.

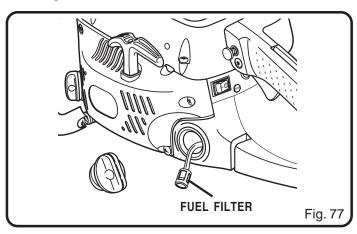


NOTE: Depending on the type of fuel used, the type and amount of oil used, and/or your operating conditions, the exhaust port and silencer may become blocked with carbon deposits. If you notice a power loss with your petrolpowered tool, you may need to remove these deposits to restore performance. We highly recommended that only qualified service technicians perform this service.



### CHECKING THE FUEL FILTER

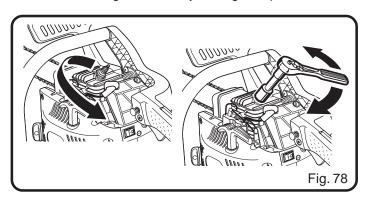
Check the fuel filter periodically. Replace it if contaminated or damaged.



### REPLACING THE SPARKING PLUG

This engine uses a Champion RCJ-6Y with 0.63 mm (0.025 in.) electrode gap. Use an exact replacement and replace every six months or more frequently, if necessary.

- 1. Loosen the sparking plug by turning it anticlockwise with a spanner.
- 2. Remove the sparking plug.
- 3. Hand thread the new sparking plug, turning it clockwise. **NOTE:** Be careful not to cross-thread the sparking plug. Cross-threading will seriously damage the product.



### CLEANING THE SPARK ARRESTING SI-LENCER

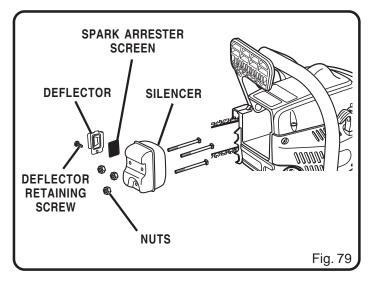
The silencer is equipped with a spark arrester screen. A faulty spark arrester screen can create a fire hazard. Through normal use the screen becomes dirty and should be inspected weekly and cleaned as required. Always keep the silencer and spark arrester on your saw in good condition.



### **WARNING**

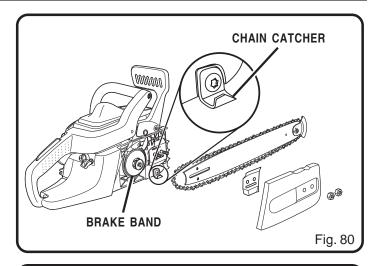
Silencer surfaces are very hot during and after operation of the chainsaw: keep all body parts away from the silencer. Serious burns may occur if contact is made with the silencer.

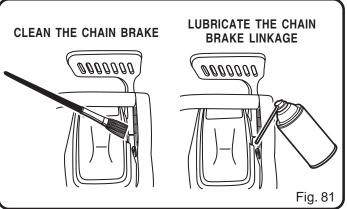
- 1. Allow the silencer to cool.
- 2. The spark arrester screen is retained by the deflector. Remove the three nuts and screen retainer to access the spark arrester screen.
- Replace the spark arrester screen if it is cracked or otherwise deteriorated.



### **CHAIN BRAKE**

- Remove the clutch cover and clean the chain brake components. Check wear on the brake band and replace if worn or deformed. The band thickness should not be less than 0.60 mm (0.024 in.), or worn halfway through.
- Always keep the chain brake mechanism clean and lightly lubricate the linkage.
- Always test the chain brake performance after servicing or cleaning. Refer to "Operation Operating Chain Brake" earlier in this manual for additional information.
- Check and, if damaged, replace the chain catcher.





# STORING THE CHAINSAW (1 MONTH OR LONGER)

- 1. Drain all fuel from tank into a container approved for petrol.
- 2. Run the engine until it stops. This will remove all fuel-oil mix which could become stale and leave varnish and gum in the fuel system.
- **3.** Drain all bar and chain oil from tank into a container approved for oil.
- 4. Clean all foreign material from the saw.
- **5.** Store it in a well ventilated place that is inaccessible to children.

**NOTE:** Keep away from corrosive agents such as garden chemicals and de-icing salts.

Abide by all regulations for the safe storage and handling of petrol. Excess fuel should be used in other 2-cycle engine powered equipment.

# **BAR AND CHAIN COMBINATIONS**

Length of Bar	Guide Bar Part Number	Chain Part Number
305 mm (12 in.)	UP08695	UP08692
356 mm (14 in.)	UP08696	UP08693
406 mm (16 in.)	UP08698	UP08694

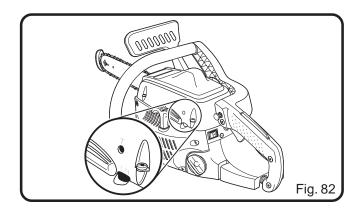
# **TROUBLESHOOTING**

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine will not start. (Make sure ignition switch is in start position "I".)	<ol> <li>No spark.</li> <li>Flooded engine.</li> </ol>	<ol> <li>Check spark. Remove air filter cover. Remove sparking plug from cylinder. Reattach the sparking plug wire and lay sparking plug on top of cylinder with the metal part of plug touching the cylinder. Pull the starter rope and watch for spark at sparking plug tip. If there is no spark, repeat test with a new sparking plug.</li> <li>With the ignition switch off, remove sparking plug. Move choke lever to run position (pushed in completely) and pull starter cord 15 to 20 times. This will clear excess fuel from engine. Clean and reinstall sparking plug. Set ignition switch to run (I) position. Push and fully release primer bulb 7 times. Pull starter three times with choke lever at run. If engine does not start, move choke lever to choke and repeat normal starting procedure. If engine still fails to start, repeat procedure with a new sparking plug.</li> </ol>
Engine starts but will not accelerate properly.	Carburettor requires "L" (Low jet) adjustment.	Contact a Homelite service dealer for carburettor adjustment.
Engine starts but will not run properly at high speed.	Carburettor requires " <b>H</b> " (High jet) adjustment.	Contact a Homelite service dealer for carburettor adjustment.
Engine does not reach full speed and/or emits excessive smoke.	<ol> <li>Check oil fuel mixture.</li> <li>Air filter dirty.</li> <li>Spark arrester screen dirty.</li> <li>Carburettor requires "H" (High jet) adjustment.</li> </ol>	<ol> <li>Use fresh fuel and the correct 2-cycle oil mix ratio.</li> <li>Clean air filter. Refer to "Maintenance – Cleaning the Air Filter" earlier in this manual.</li> <li>Clean spark arrester screen. Refer to "Maintenance – Cleaning the Spark Arresting Silencer" earlier in this manual.</li> <li>Contact a Homelite service dealer for carburettor adjustment.</li> </ol>

# **TROUBLESHOOTING**

PROBLEM F	POSSIBLE CAUSE	SOLUTION
Engine starts, runs, and accelerates but will not idle.	Carburettor requires adjustment.	Turn idling speed screw "T" clockwise to increase idling speed. If chain turns at idle, turn idling speed screw "T" anticlockwise to decrease speed. Wear protective equipment and observe all safety instructions. See Figure 82.
Bar and chain running hot and smoking.	<ol> <li>Chain oil tank empty.</li> <li>Check chain tension for</li> </ol>	<ol> <li>Oil tank should be filled every time that fuel tank is filled.</li> <li>Tension chain per instructions in "Maintenance –</li> </ol>
	overtight condition.  3. Check for oiler function.	Adjusting the Chain Tension" earlier in this manual.  3. Run at half throttle 30 to 45 seconds. Stop saw and check for oil dripping from SAFE-T-TIP and guide bar. If oil is present the chain may be dull or bar may be damaged. If no oil is on the SAFE-T-TIP, contact a Homelite service dealer.
Engine starts and runs, but chain is not rotating.	1. Chain brake engaged.	Release chain brake. Refer to "Operation –     Operating the Chain Brake" earlier in this manual.
G	2. Chain tension too tight.	2. Tension chain per instructions in "Maintenance – Adjusting the Chain Tension" earlier in this manual.
	<ol><li>Check guide bar and chain assembly.</li></ol>	3. Refer to "Maintenance – Assembling the Bar and Chain" earlier in this manual.
	<ol> <li>Check guide bar and chain for damage.</li> </ol>	4. Inspect guide bar and chain for damage.

**NOTE:** The carburettor adjustment needle(s) are equipped with plastic cap(s) which prevent anticlockwise rotation from the original factory adjustment. If your product exhibits specific performance problem(s) where the Troubleshooting Section recommends an anticlockwise needle adjustment and you have made no adjustments since the original purchase, take the product to a factory-authorised service dealer for repair. In most cases, the needed adjustment is a simple task for the factory-trained service representative.



# WARRANTY

# **GUARANTEE – STATEMENT**

### (RTSA / RTUK / RTG)

All Homelite products are guaranteed from defects in material and workmanship for a period of twenty-four (24) months, effective and evidenced from date of original invoice or delivery note.

Defects caused by normal wear and tear, unauthorised/improper maintenance/handling or overload are excluded from this guarantee, as are accessories such as battery packs, bulbs, blades and bits etc.

In the event of malfunction within the guarantee period, please return the assembled product with proof of purchase to your dealer or nearest Homelite Service Centre.

Your statutory rights in respect of defective products remain unaffected by the warranty.

Ryobi Technologies GmbH, Itterpark 7, D-40724 Hilden, Germany

Ryobi Technologies, Customer Services, Anvil House, Tuns Lane, Henley-on-Thames, RG9 1SA, UK

Homelite / R.T.S.A, BP 50012 - 95945 Roissy CDG Cedex - FRANCE

Ryobi Technologies Australia PTY Limited, 359-361 Horsley Road, Milperra, NSW 2214 Australia

# SAFETY DIRECTIVE

### EC DECLARATION OF CONFORMITY

According to machinery directive 98/37/EC and EMC directive 89/336/EEC - We,

Homelite Consumer Products Inc., 1428 Pearman Dairy Road, Anderson, SC 29625, USA

Declare in sole responsibility that the product: CSP3314 (UT74121A) - to which this certificate applies, conforms to the basic health and safety requirements of the Machinery Directive 98/37/EC and other relevant directives, such as EMC Directive 89/336/EEC and Outdoor Directive 2000/14/EC.

EC type examination certificates have been issued by the following approved body, following the requirements set out in EMC Directive 89-336/EEC by: SLG Certificate No. 1005250

To effect correct application of the health and safety requirements stated in the EEC directives, the following European and/or national standards and/or technical specifications were consulted:

DIN, EN 608:12/94 / EN292-1:1991 / EN292-2:1991 / ISO 7182:1991 / ISO 3767-5:1992 / ISO 3864:1984 / ISO 6531:1982 / ISO 6533:1993 / ISO 6534:1992 / ISO 6535:1991 / ISO 7293:1983 / ISO 7505:1986/ISO 7914:1986 / ISO 7915:1991 / ISO 8334:1985 / ISO DIS 9207:1991 / ISO 9518:1992 / ISO 10726:1992 / CISPR 12:1990

Wayne Hill Director, Environmental Compliance

Homelite Consumer Products, Inc. 1428 Pearman Dairy Road Anderson, SC 29625, USA

January 24, 2003

# **NOTES** — UK - Page 39

# Homelite®

OPERATOR'S MANUAL
356 mm (30 ft.) 33cc Chainsaw
CSP3314
Model No. UT74121A

### Ryobi Technologies GmbH

Itterpark 7
D-40724 Hilden
Germany
Tel.: +49 (0)2103 / 29 58 0
Fax : +49 (0)2103 / 29 58 29
info@ryobi-rtg.de

### **Ryobi Technologies**

Customer Services
Anvil House
Tuns Lane
Henley-on-Thames
RG9 1SA
UK

### Homelite / R.T.S.A

BP 50012 - 95945 Roissy CDG Cedex - FRANCE

### Ryobi Technologies Australia PTY Limited

359-361 Horsley Road, Milperra, NSW 2214 Australia